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File: USPT

Mar 29, 2005

US-PAT-NO: 6872559

DOCUMENT-IDENTIFIER: US 6872559 B2

TITLE: E. coli O157:H7 C1 esterase inhibitor-binding protein and methods of use

DATE-ISSUED: March 29, 2005

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Welch; Rodney A.	Madison	WI		
Lathem; Wyndham W.	Madison	WI		

US-CL-CURRENT: 435/212; 435/69.1, 435/69.2, 435/7.37, 530/300, 530/350, 536/23.1, 536/23.2

## CLAIMS:

What is claimed is:

1. An isolated polypeptide comprising the amino acid sequence of amino acid sequence of amino acid residues 230-630 of SEQ ID NO:2, wherein the polypeptide comprises a StcE specific immunogen or has the ability to bind to and cleave C1 esterase inhibitor.
2. The polypeptide of claim 1, wherein the polypeptide comprises amino acid residues 85-734 of SEQ ID NO:2.
3. The polypeptide of claim 1, wherein the polypeptide comprises amino acid residues 24-886 of SEQ ID NO:2.
4. The polypeptide of claim 1, wherein the polypeptide has the ability to bind to and cleave C1 esterase inhibitor.
5. An isolated polypeptide comprising an amino acid sequence having at least 95% amino acid identity to amino acid residues 24-886 of SEQ ID NO:2, the polypeptide comprising a sequence corresponding with and identical to amino acids 434-444 of SEQ ID NO:2, the polypeptide having the ability to bind to and cleave C1 esterase inhibitor.
6. An isolated polypeptide, the amino acid sequence of which consists of at least 17 consecutive amino acid residues of SEQ ID NO:2, wherein the polypeptide consists of a StcE specific immunogen.
7. The polypeptide of claim 6, wherein the amino acid sequence consists of at least 25 consecutive amino acid residues of SEQ ID NO:2.
8. The polypeptide of claim 6, wherein the amino acid sequence consists of at least 40 consecutive amino acid residues of SEQ ID NO:2.
9. The polypeptide of claim 6, wherein the amino acid sequence comprises amino acid

residues 430-446 of SEQ ID NO:2.

10. The polypeptide of claim 6, wherein the amino acid sequence comprises amino acid residues 421-446 of SEQ ID NO:2.

11. The polypeptide of claim 6, wherein the amino acid sequence comprises amino acid residues 408-448 of SEQ ID NO:2.

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L1: Entry 1 of 1

File: USPT

Mar 29, 2005

US-PAT-NO: 6872559  
DOCUMENT-IDENTIFIER: US 6872559 B2

TITLE: E. coli O157:H7 Cl esterase inhibitor-binding protein and methods of use

DATE-ISSUED: March 29, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Welch; Rodney A.	Madison	WI		
Lathem; Wyndham W.	Madison	WI		

US-CL-CURRENT: 435/212; 435/69.1, 435/69.2, 435/7.37, 530/300, 530/350, 536/23.1, 536/23.2

CLAIMS:

What is claimed is:

1. An isolated polypeptide comprising the amino acid sequence of amino acid sequence of amino acid residues 230-630 of SEQ ID NO:2, wherein the polypeptide comprises a StcE specific immunogen or has the ability to bind to and cleave Cl esterase inhibitor.
2. The polypeptide of claim 1, wherein the polypeptide comprises amino acid residues 85-734 of SEQ ID NO:2.
3. The polypeptide of claim 1, wherein the polypeptide comprises amino acid residues 24-886 of SEQ ID NO:2.
4. The polypeptide of claim 1, wherein the polypeptide has the ability to bind to and cleave Cl esterase inhibitor.
5. An isolated polypeptide comprising an amino acid sequence having at least 95% amino acid identity to amino acid residues 24-886 of SEQ ID NO:2, the polypeptide comprising a sequence corresponding with and identical to amino acids 434-444 of SEQ ID NO:2, the polypeptide having the ability to bind to and cleave Cl esterase inhibitor.
6. An isolated polypeptide, the amino acid sequence of which consists of at least 17 consecutive amino acid residues of SEQ ID NO:2, wherein the polypeptide consists of a StcE specific immunogen.
7. The polypeptide of claim 6, wherein the amino acid sequence consists of at least 25 consecutive amino acid residues of SEQ ID NO:2.
8. The polypeptide of claim 6, wherein the amino acid sequence consists of at least 40 consecutive amino acid residues of SEQ ID NO:2.
9. The polypeptide of claim 6, wherein the amino acid sequence comprises amino acid

residues 430-446 of SEQ ID NO:2.

10. The polypeptide of claim 6, wherein the amino acid sequence comprises amino acid residues 421-446 of SEQ ID NO:2.

11. The polypeptide of claim 6, wherein the amino acid sequence comprises amino acid residues 408-448 of SEQ ID NO:2.

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L6: Entry 1 of 2

File: PGPB

Jul 13, 2006

PGPUB-DOCUMENT-NUMBER: 20060153828

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060153828 A1

TITLE: Method of reducing the viscosity of mucus

PUBLICATION-DATE: July 13, 2006

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Welch; Rodney A.	Madison	WI	US
Lathem; Wyndham W.	St. Louis	MO	US
Grys; Thomas E.	Madison	WI	US

US-CL-CURRENT: [424/94.63](#); [424/164.1](#), [514/192](#), [514/200](#), [514/210.09](#)

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>	<a href="#">Claims</a>	<a href="#">KWC</a>	<a href="#">Draw Desc</a>	<a href="#">Image</a>
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☐ 2. Document ID: US 20040234530 A1

L6: Entry 2 of 2

File: PGPB

Nov 25, 2004

PGPUB-DOCUMENT-NUMBER: 20040234530

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040234530 A1

TITLE: E.coli O157:H7 C1-INH-binding protein and methods of use

PUBLICATION-DATE: November 25, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Welch, Rodney A.	Madison	WI	US
Lathem, Wyndham W.	St. Louis	MO	US
Grys, Thomas E.	Madison	WI	US

US-CL-CURRENT: [424/164.1](#); [435/188.5](#), [530/388.4](#)

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>	<a href="#">Claims</a>	<a href="#">KWC</a>	<a href="#">Draw Desc</a>	<a href="#">Image</a>
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		<i>DB=USPT; PLUR=YES; OP=ADJ</i>	
<input type="checkbox"/>	L5	StcE and viscosity reducing and saliva	0
<input type="checkbox"/>	L4	L1 and viscosity reducing	0
<input type="checkbox"/>	L3	L1 and StcE	1
<input type="checkbox"/>	L2	L1 and viscosity	0
<input type="checkbox"/>	L1	6872559	1

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